

## ABSTRACT OF THE DISCLOSURE

A storage server provides a set of client devices with access to a set of mass storage devices. The storage server receives requests from the client devices, each request representing a storage operation to be performed by the storage server on the set of mass storage devices. The storage server maintains a log of write requests received from the client devices, the log including a separate log entry for each of the write requests, and a separate checksum in each of the log entries. Each checksum is for use by a checksum algorithm in determining data integrity of the corresponding log entry. The checksum algorithm is selected, from among a number of selectable a checksum algorithms, based on one or more predetermined criteria, such as a desired balance between performance and checksum strength.